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HIV1-Vpr	1 M.....EQAP	EDQGPQR.EY	PNDWTLELLE	ELKNEAVRHF	PRIWLHSLGQ	44
HIV2/SIV-Vpr	1 M.....EERPP	ENEGPQR.EP	WDEWVVEVLE	ELKEEALKHF	DPRLLTALGN	45
HIV2/SIV-Vpx	1 MTNPRETIPP	GNSGEETIEE	AFDWLDRIVE	AINREAVNHL	PRELIFQVWQ	50
HIV-Vpr	45 HIYETYGDTW	TGVEALIR...	...ILQQLLF	IHFRIGCRHS	RIGIIQQRRT	89
HIV2/SIV-Vpr	46 HIYNRHGDTL	EGAGELIR..	...ILQRALF	MHFRGGCIHS	RIGQPGGPN	90
HIV2/SIV-Vpx	51 RSWRYWHDEQ	GMSRSYTKYR	YLCLMQKAVF	MHFCKGCTCR	GEHGPGGWR	100
HIV1-Vpr	90 RNGASKS....					96
HIV2/SIV-Vpr	91 LSAIPPSRSM L					101
HIV2/SIV-Vpx	101 SGPPPPPPPPG L					111

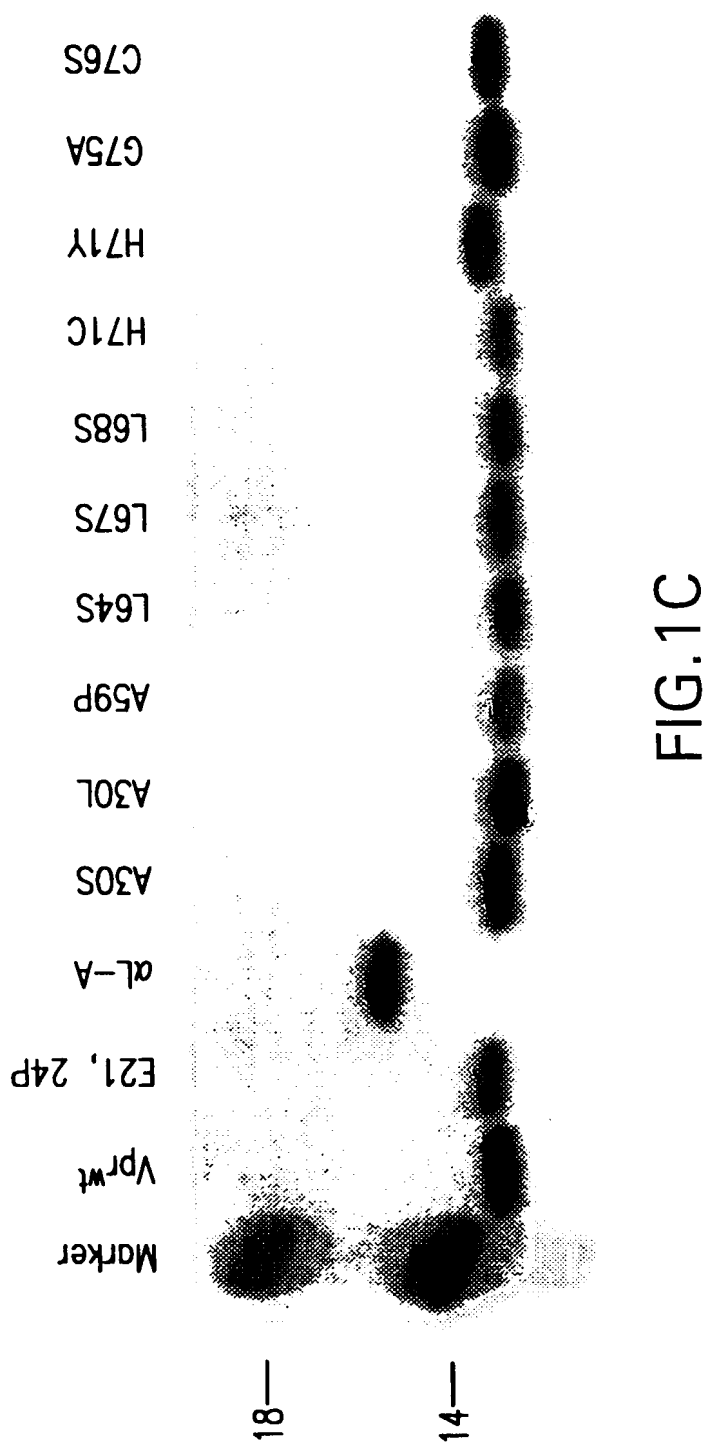
FIG.1A

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Vpr wt	MEQAPEDQGPREP/NDWTLEELLEELKNEAVRHFPRILWLSLGHQHIYETYGDTWTGVEALIRILQQLFIHFRIGCRHSRIGIIQHRRTRNGASKS
E21.24p	-----P-P-----
α L-A	-----A-AA-A-----
A30S	-----S-----
A30L	-----L-----
A59P	-----P-----
L64S	-----S-----
L67S	-----S-----
L68S	-----S-----
H71C	-----C-----
H71Y	-----Y-----
G75A	-----A-----
C76S	-----S-----
HXB2	MEQAPEDQGPREP/NDWTLEELLEELKNEAVRHFPRILWLSLGHQHIYETYGDIWIGVEALIRILQQLFIHFQNWVST

FIG.1B

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Vpr	MEQAPEDQGPQREYPNDWTLEELKNEAVRHFPRILWLSLGHQIHYETYGDTWTGV	VEALIRILQQLLFIFHRIGCRHSRIGIIQQRRTNRNGASKS	
Vpr	-----	-----	-----
E21_24P	-----	-----	-----
aL-A	-----	-----	-----
A30S	-----	-----	-----
A30L	-----	-----	-----
A59P	-----	-----	-----
L64S	-----	-----	-----
L67S	-----	-----	-----
L68S	-----	-----	-----
H71C	-----	-----	-----
H71Y	-----	-----	-----
G75A	-----	-----	-----
C76S	-----	-----	-----

FIG. 1D

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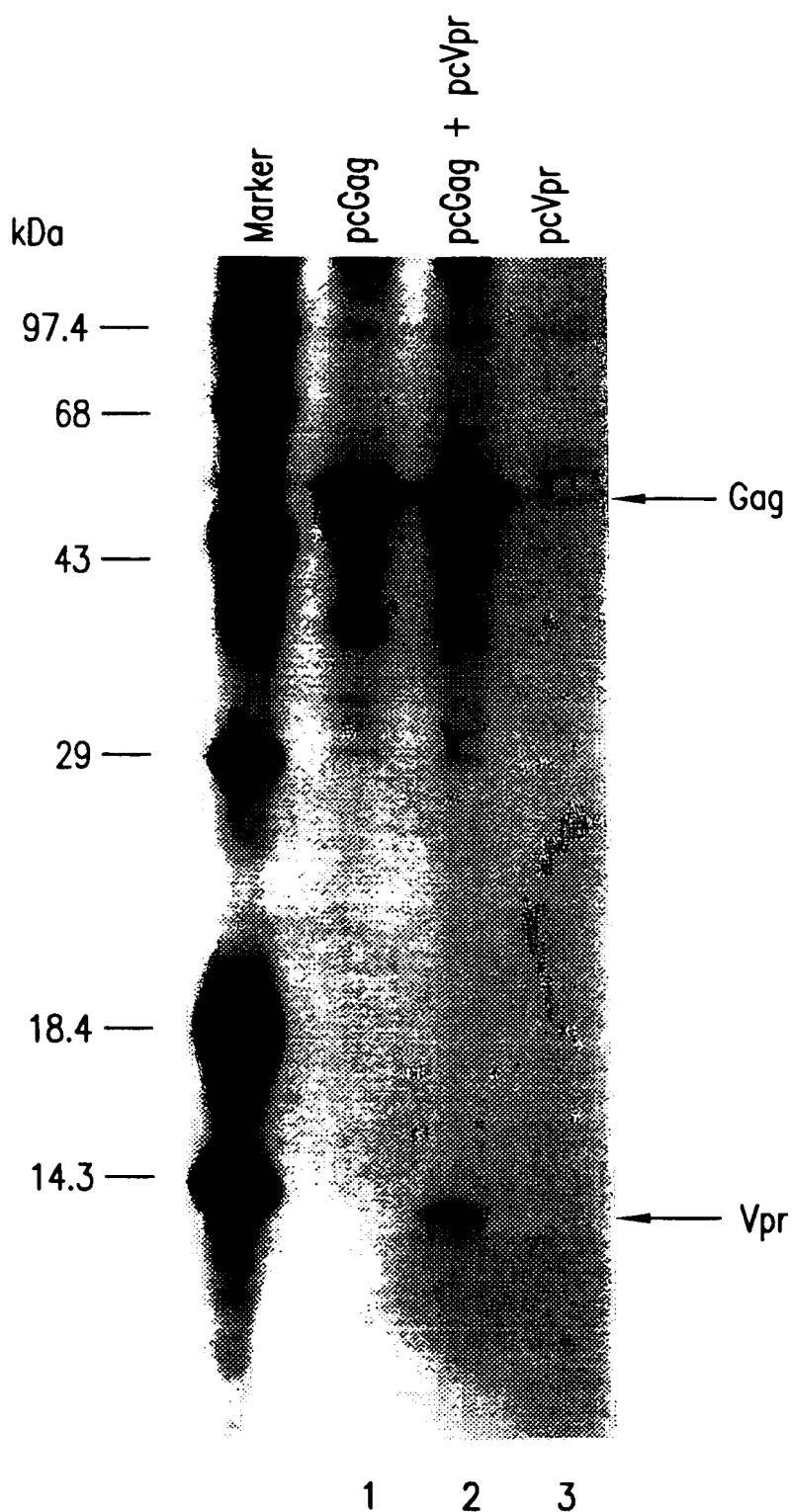


FIG.2

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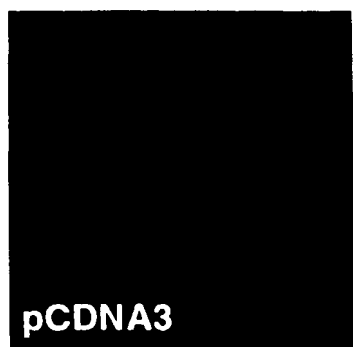


FIG.3A

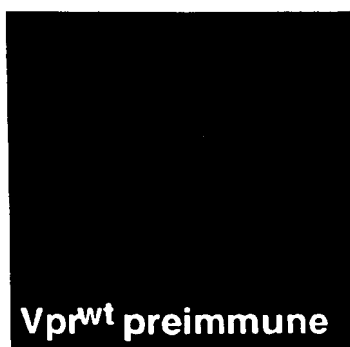


FIG.3B

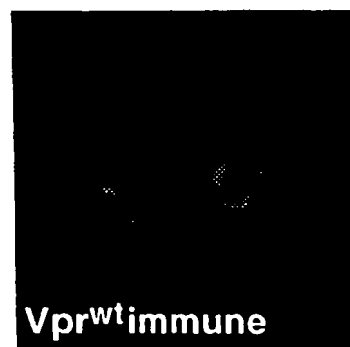


FIG.3C

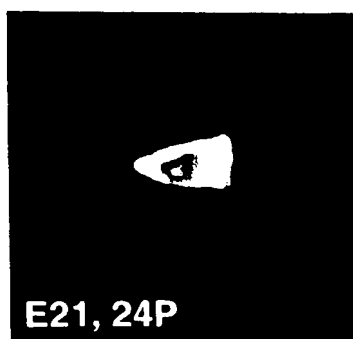


FIG.3D

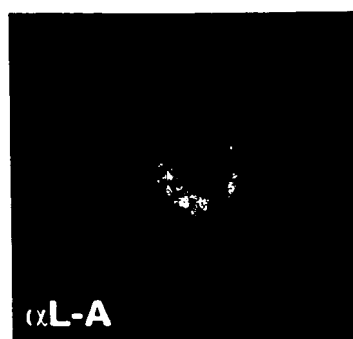


FIG.3E



FIG.3F

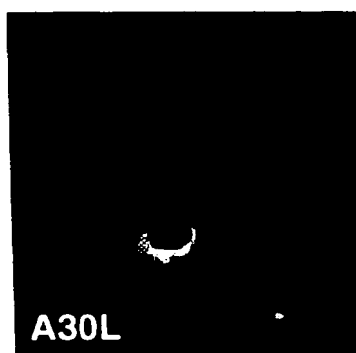


FIG.3G

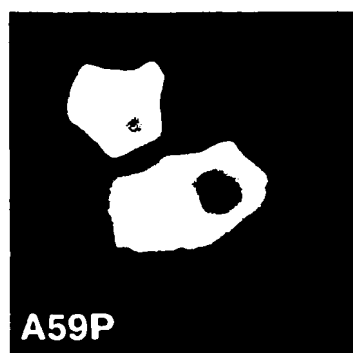


FIG.3H

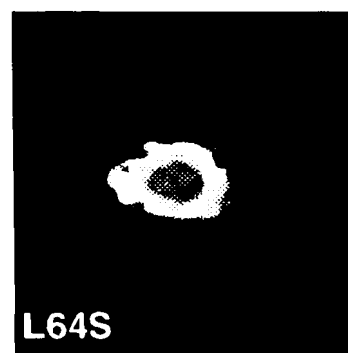


FIG.3I

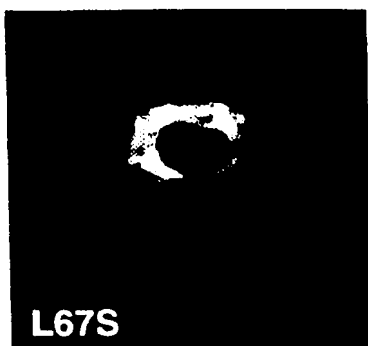


FIG.3J

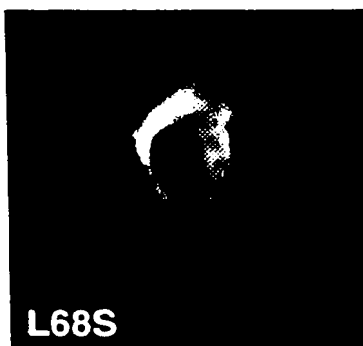


FIG.3K

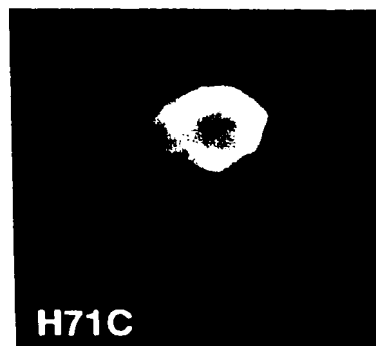


FIG.3L

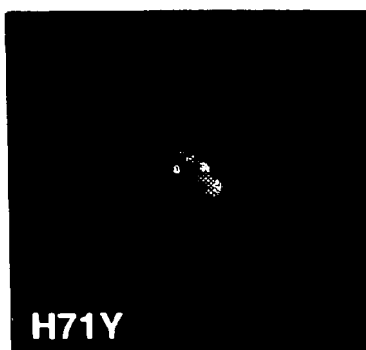


FIG.3M

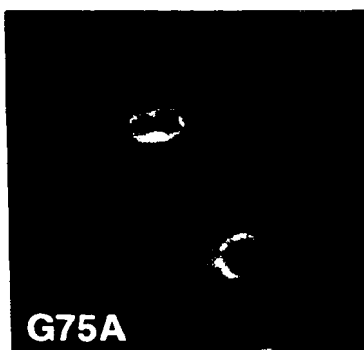


FIG.3N

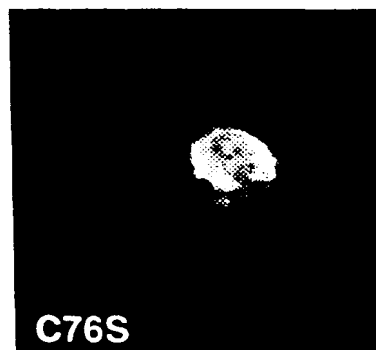


FIG.3O

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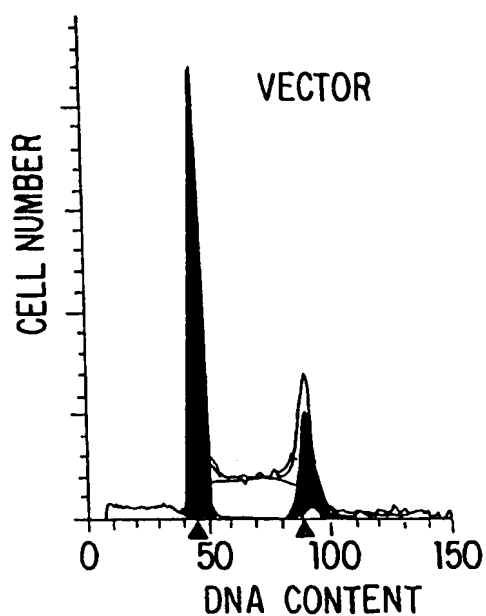


FIG. 4A-1

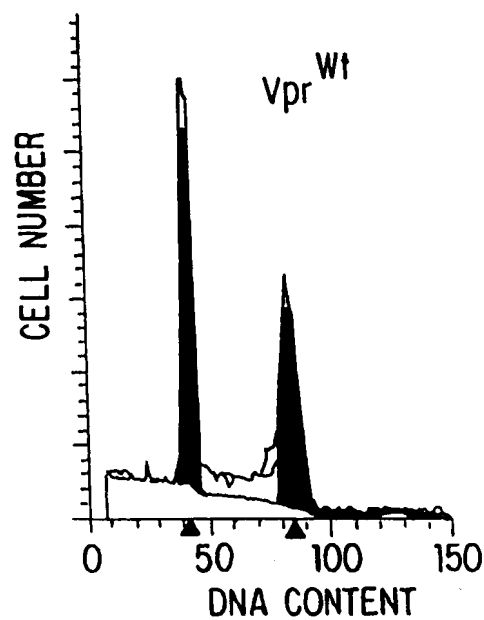


FIG. 4A-2

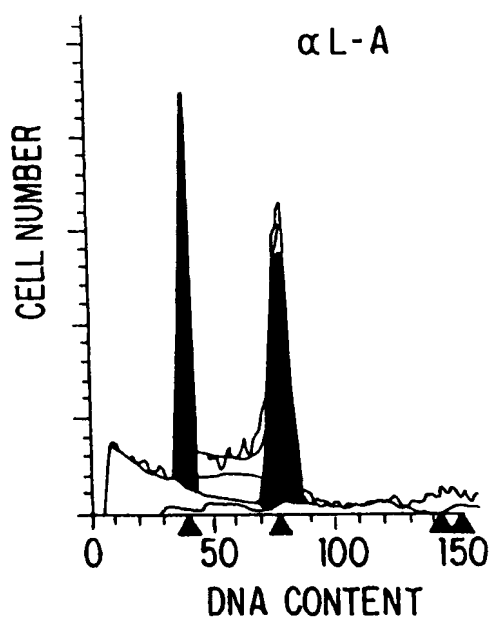


FIG. 4A-3

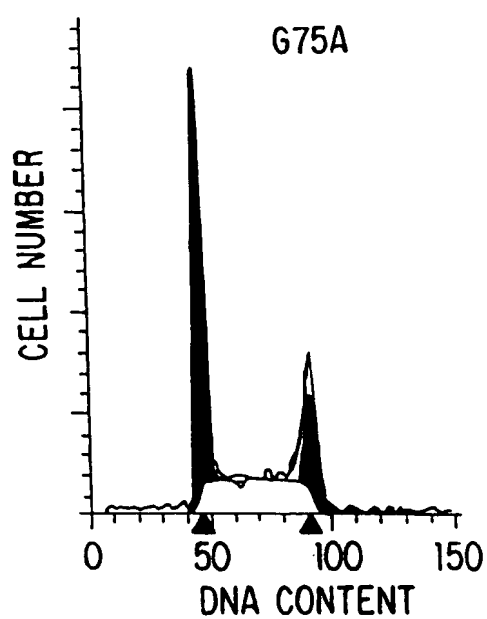


FIG. 4A-4

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FIG.4B-1

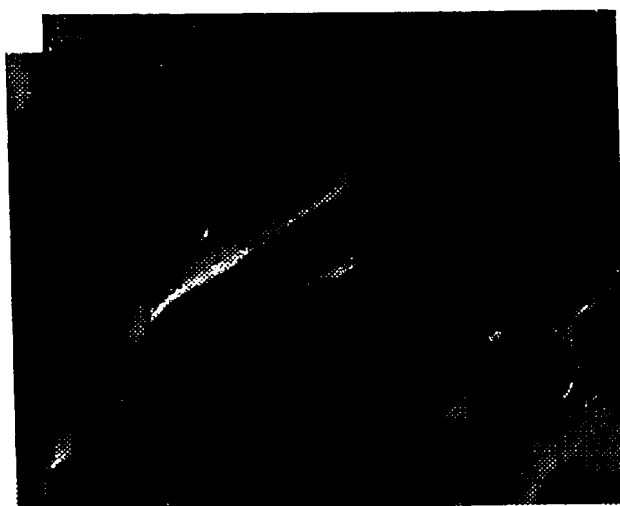


FIG.4B-2

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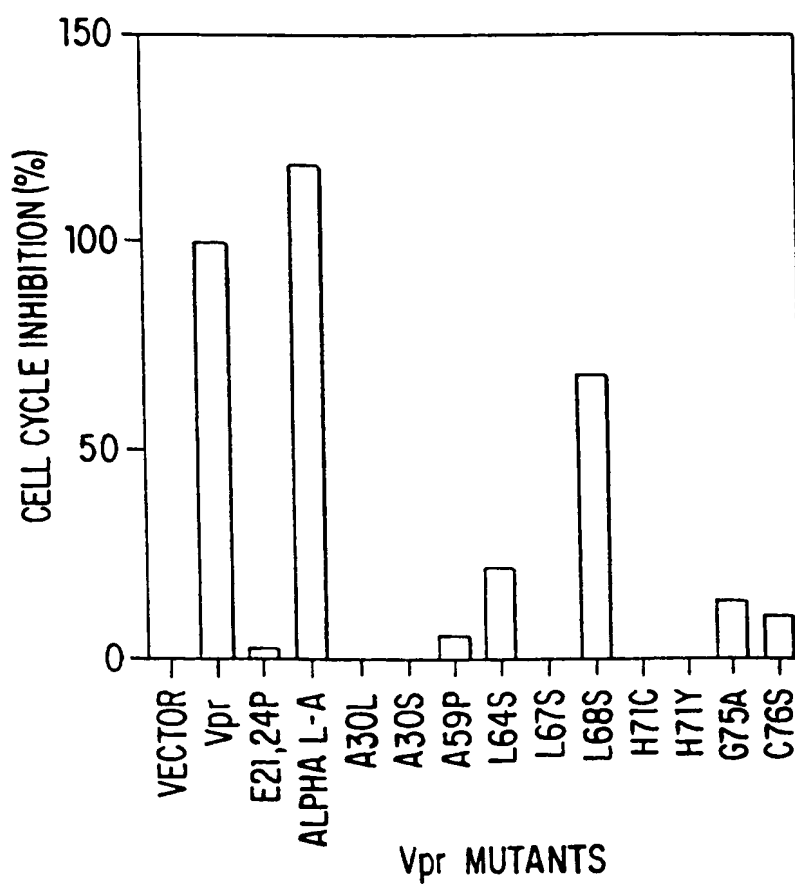


FIG. 4C

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<u>C-terminal domain</u>		Function
<u>LR domain</u>		
<u>α-helix</u>	<u>IRILQQLFIHFRIGCRHSRIGI</u>	Virion incorporation
PEDQGPQREPYNDWTLELLEELKNEAVRHFPR IWLHSLGQHIYETYGDTWTGVEAL	A	Nuclear localization
	A L LL H C	Nuclear localization
	A L LL H GC	Cell cycle arrest
	L LL L	

FIG.5

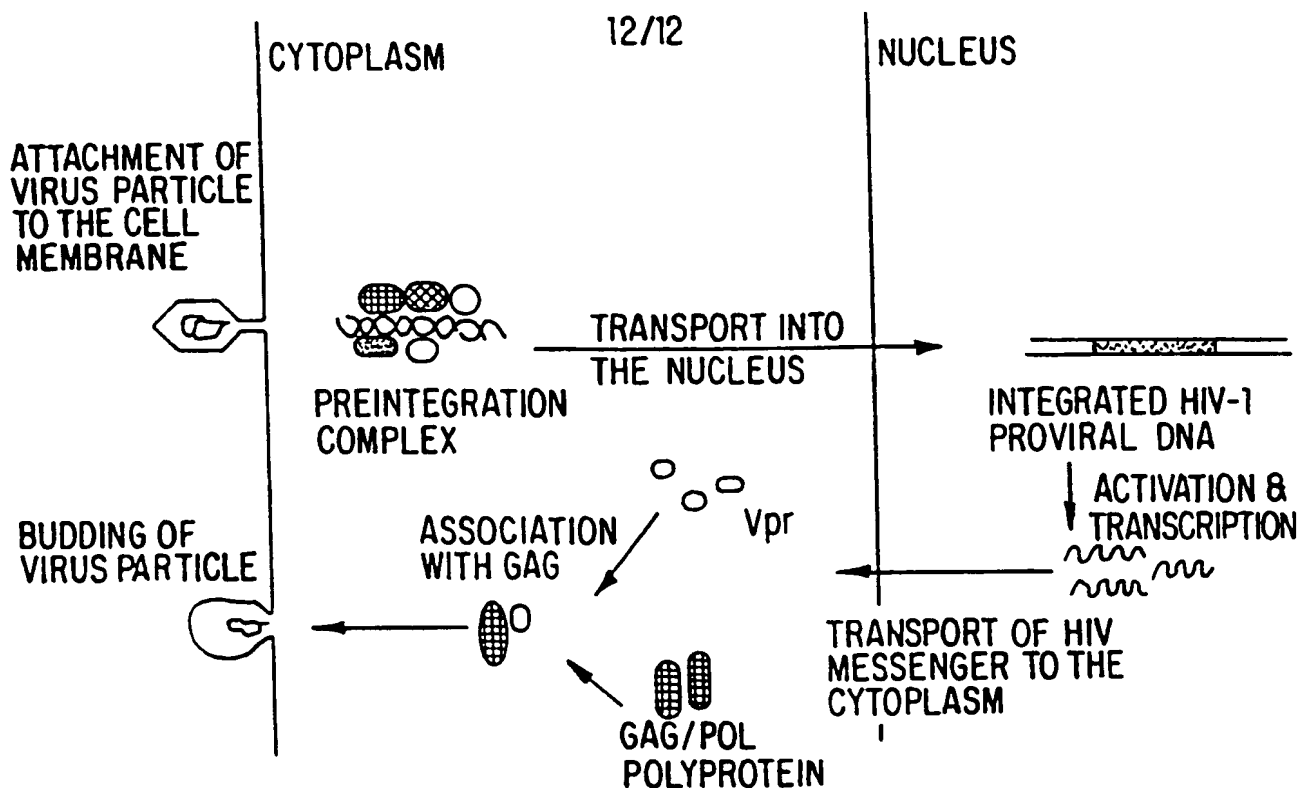


FIG. 6A

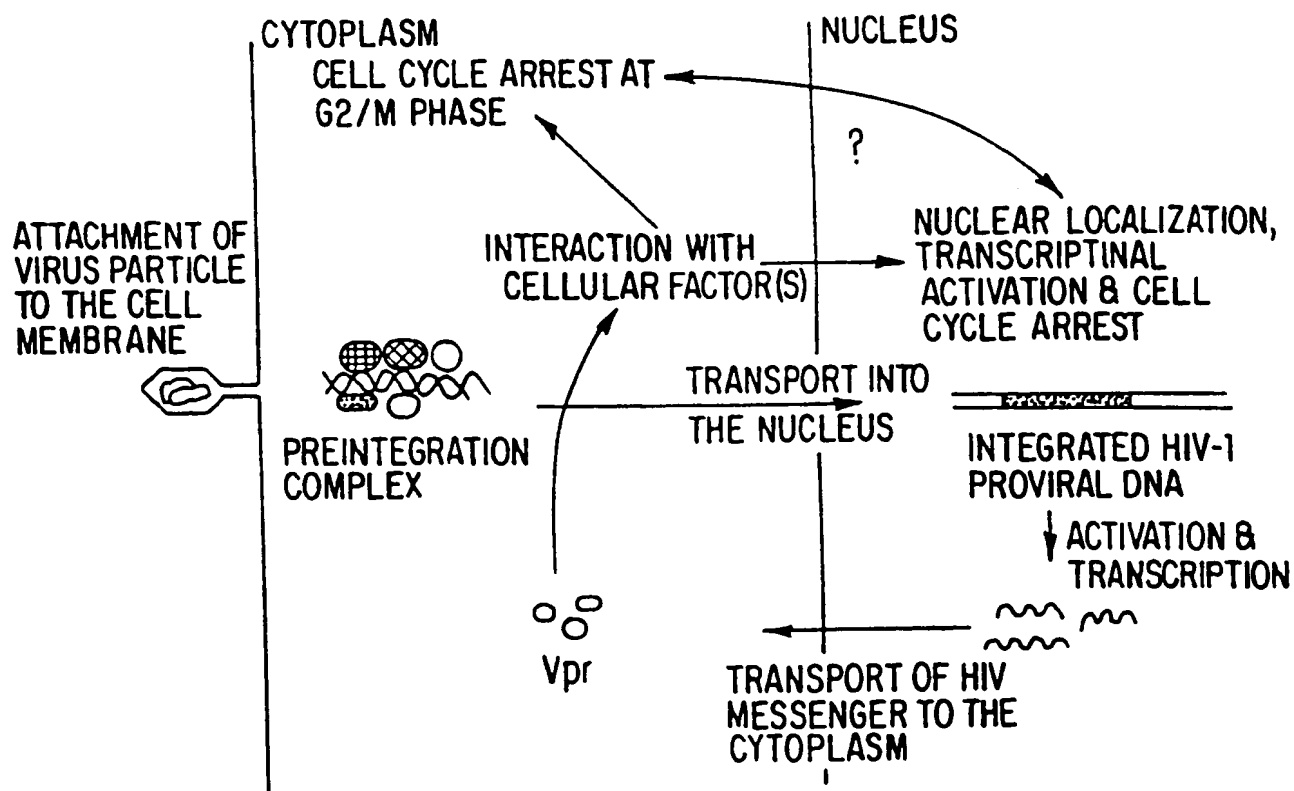


FIG. 6B